

KEVIN J. EDWARDS &
ANGELA HART-EDWARDS
9811 RITCHIE COURT
PB 60 ~ Pg 65
TAX MAP 78/PARCEL 79
L. 2833 ~ F. 950
LOT 54

KENNETH B. BUTLER &
DEBORAH L. BUTLER
9815 RITCHIE COURT
PB 60 ~ Pg 65
TAX MAP 78/PARCEL 79
L. 2534 ~ F. 263
LOT 55

LIMIT OF 100 YEAR FLOODPLAIN AS
DELINEATED ON WATER & SEWER
EXTENSION TO SERVE HOLLY HILLS
CONTRACT NO. 224A-SW (SHEET 2 OF 13)
CONSTRUCTION PLANS

INSTALL TYPE 'A' SOIL STABILIZATION
MATTING IN SIDE DITCH
STA. 102+50 TO STA. 102+75, LT. - 28 S.Y.
STA. 104+30 TO STA. 106+50, LT. - 239 S.Y.

REMOVE AND REPLACE EXISTING WOOD FENCE
STA. 101+85 TO STA. 107+00, RT. - 550 L.F.

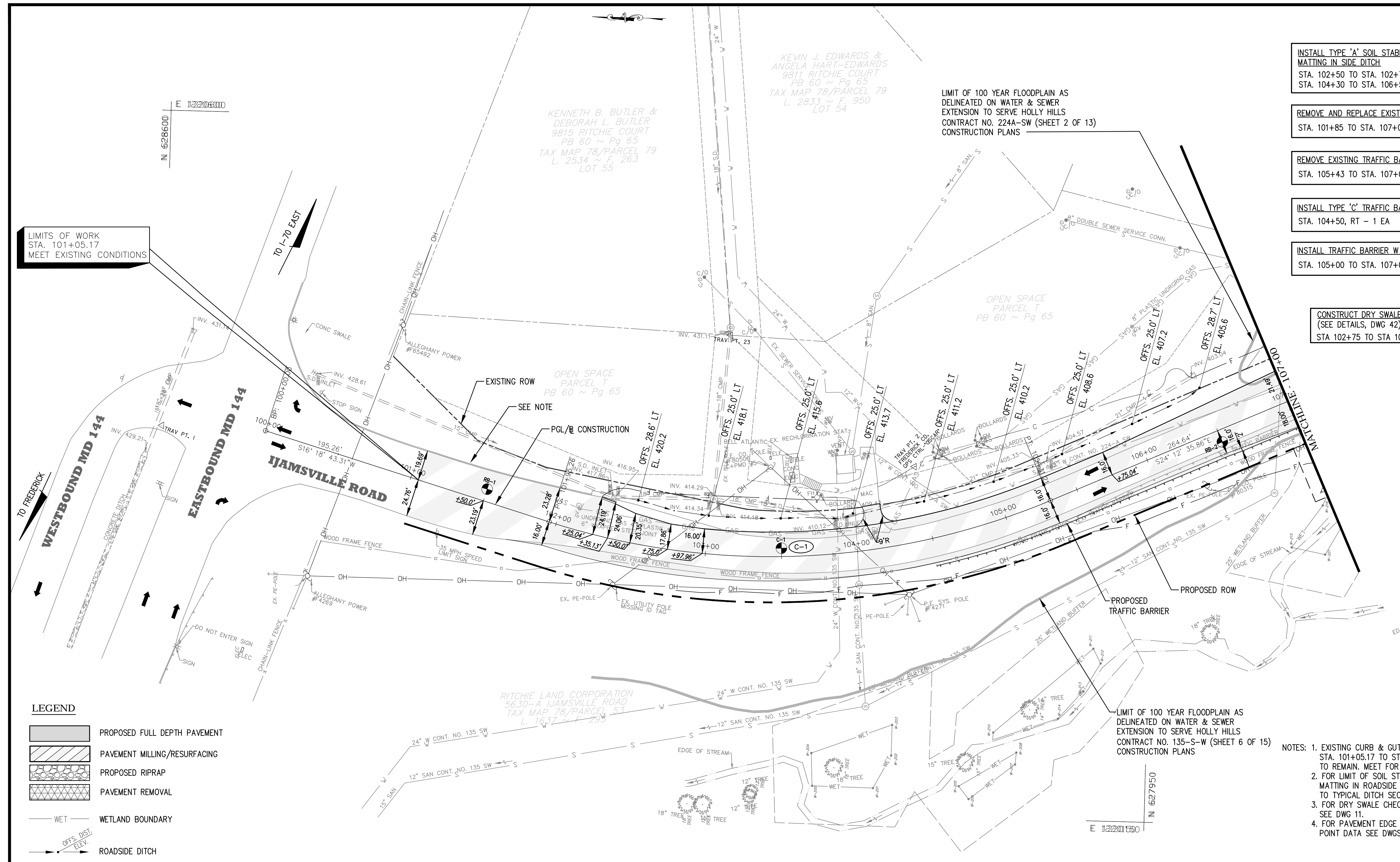
REMOVE EXISTING TRAFFIC BARRIER AND END TREATMENT
STA. 105+43 TO STA. 107+00, RT. - 160 L.F.

INSTALL TYPE 'C' TRAFFIC BARRIER END TREATMENT
STA. 104+50, RT - 1 EA

INSTALL TRAFFIC BARRIER W BEAM
STA. 105+00 TO STA. 107+00, RT. - 200 L.F.

CONSTRUCT DRY SWALE
(SEE DETAILS, DWG 42)
STA 102+75 TO STA 103+91 (EX. INLET), LT - 110 L.F.

LIMITS OF WORK
STA. 101+05.17
MEET EXISTING CONDITIONS



LEGEND

- PROPOSED FULL DEPTH PAVEMENT
- PAVEMENT MILLING/RESURFACING
- PROPOSED RIPRAP
- PAVEMENT REMOVAL
- WETLAND BOUNDARY
- ROADSIDE DITCH
- TOP OF CUT
- TOE OF FILL
- TEMPORARY CONSTRUCTION EASEMENT
- CONSTRUCTION CURVE DESIGNATION
- TRAVERSE POINT LOCATION
- TRAFFIC FLOW
- EXISTING GUARD RAIL
- PROPOSED GUARD RAIL
- BORING LOCATION
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- DRY SWALE CHECK DAM

FREDERICK COUNTY DIVISION OF PERMITTING AND DEVELOPMENT REVIEW

APPROVED: *David A. Galt* 3/31/14
DEVELOPMENT REVIEW CHIEF DATE

APPROVED: *[Signature]* 3/21/14
STORMWATER MANAGEMENT DATE

Reviewed in accordance with local County requirements. Frederick County assumes no liability for design and/or construction. Approval is valid for two (2) years [one (1) year if public water and/or sewer is involved] after the last date shown above. The project must be under construction before the approval expiration to be considered active. Otherwise, resubmittal of plans, including applicable fees, must be made to Development Review for approval. Fees for resubmittal cannot be waived.

REV.	DATE	REVISION DESCRIPTION	CONSULTANT DATE AND INITIAL	DEV. REVIEW DATE AND INITIAL
1	7/2014	WIDEN ROADWAY FOR BYPASS LANE STA. 111+00 TO 122+00, ADD RETAINING WALL STA. 187+50 TO 188+79, LT.	CSN	

NOTE:
IF ANY SEPTICS OR WELLS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL CEASE WORK IMMEDIATELY AND NOTIFY THE HEALTH DEPARTMENT.

PLAN
SCALE: 1" = 30'

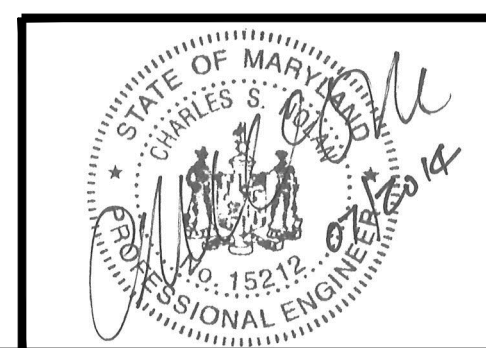
MILL EXISTING PAVEMENT
STA 101+05.17 TO STA 107+00 - 1782 S.Y.

- NOTES:
1. EXISTING CURB & GUTTER AND INLET STA. 101+05.17 TO STA. 102.35.01, RT. TO REMAIN. MEET FOR LINE AND GRADE.
 2. FOR LIMIT OF SOIL STABILIZATION MATTING IN ROADSIDE DITCH REFER TO TYPICAL DITCH SECTION OF DWG. 2
 3. FOR DRY SWALE CHECK DAM LOCATION TABLE SEE DWG 11.
 4. FOR PAVEMENT EDGE PLAN AND CONTROL POINT DATA SEE DWGS. 7-11.

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF HIGHWAYS AND TRANSPORTATION
OFFICE OF TRANSPORTATION ENGINEERING

IJAMSVILLE ROAD IMPROVEMENTS
PHASE II
FROM MD 144 TO APPROXIMATELY 415'
NORTH OF CSX RAILROAD CROSSING

DATE: JULY 2014
PROJECT NO: 14-9899-C28325
SCALE: AS SHOWN
DWG. 26 OF 89



GPI
GREENMAN-PEDERSEN, INC.
ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS
10977 GUILFORD ROAD ANNAPOLIS JUNCTION, MD 20701
WASH. (301) 470-2772 BALT. (410) 880-3055
FAX: (301) 490-2649 www.gpinet.com

INSTALL TYPE 'A' SOIL STABILIZATION
MATTING IN SIDE DITCH
STA. 113+79 TO STA. 116+50, LT. - 283 S.Y.

REMOVE AND REPLACE EXISTING WOOD FENCE
STA. 107+00 TO STA. 114+70, RT. - 735 L.F.
STA. 115+83 TO STA. 116+50, RT. - 70 L.F.
STA. 111+47 TO STA. 111+52, RT. - 20 L.F.

REMOVE EXISTING CULVERT PIPE
STA. 115+21, RT. TO STA. 115+20, LT. - 40 L.F.

CONSTRUCT MDSHA TYPE 'A' COMBINATION CURB & GUTTER
STA. 107+11.51 TO STA. 110+25.5, LT. - 344 L.F.
STA. 110+52.33 TO STA. 113+64.87, LT. - 331 L.F.

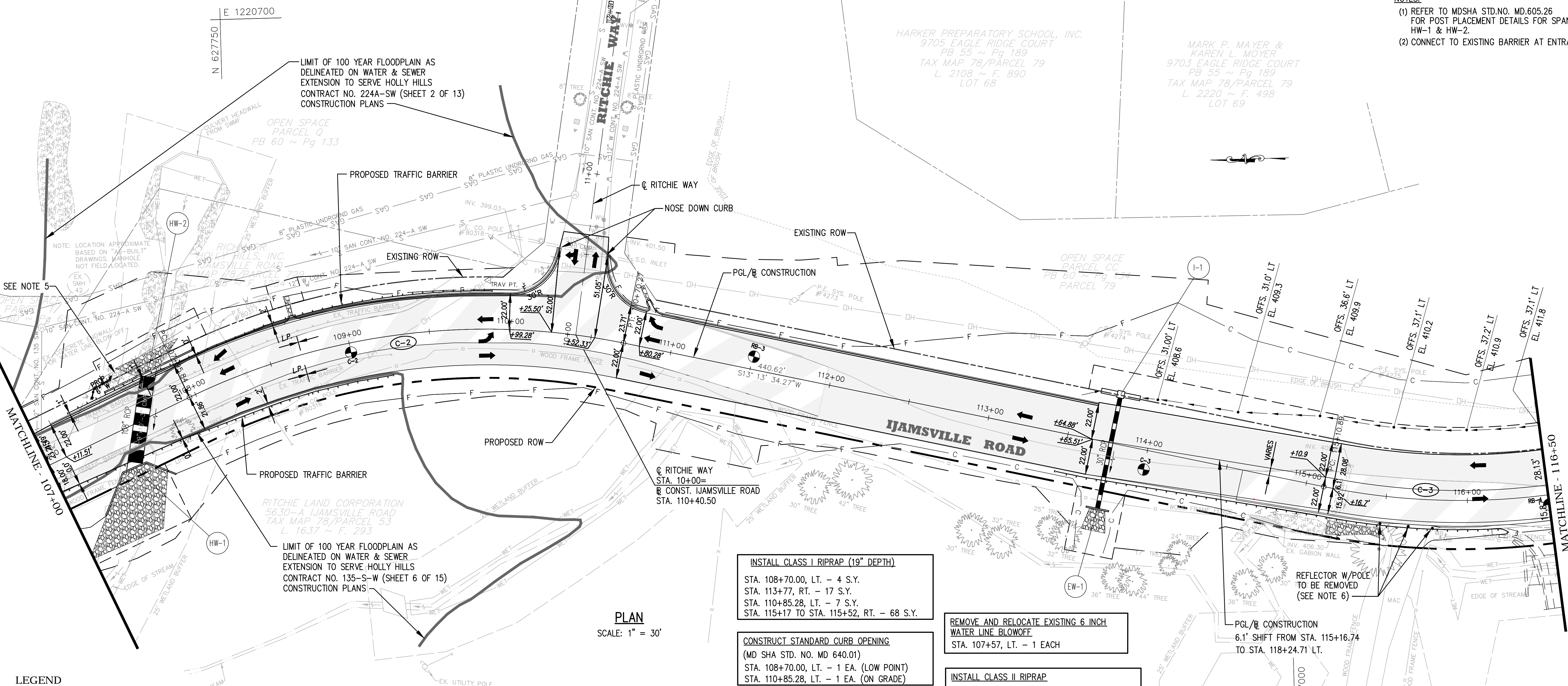
REMOVE EXISTING TRAFFIC BARRIER AND END TREATMENT
STA. 107+00 TO STA. 109+25, RT. - 220 L.F.
STA. 107+37 TO STA. 109+66, LT. - 240 L.F.

CONSTRUCT 5" CONCRETE DITCH
(MDSHA STD. NO. MD 378.05 AND 389.01
STA. 113+77, LT. - 6.7 S.Y.

INSTALL TYPE 'C' TRAFFIC BARRIER END TREATMENT
STA. 107+25, LT - 1 EA
STA. 108+70, RT - 1 EA
STA. 109+39, LT - 1 EA
STA. 113+95.5, RT - 1 EA

INSTALL TRAFFIC BARRIER W BEAM
STA. 107+00 TO STA. 108+70, RT - 167 L.F. (1)
STA. 107+75 TO STA. 109+39, LT - 172 L.F. (1)
STA. 113+47.5 TO STA. 116+24, RT - 282 L.F. (2)

NOTES:
(1) REFER TO MDSHA STD.NO. MD.605.26
FOR POST PLACEMENT DETAILS FOR SPANNING
HW-1 & HW-2.
(2) CONNECT TO EXISTING BARRIER AT ENTRANCE.



PLAN
SCALE: 1" = 30'

LEGEND

- PAVEMENT MILLING/RESURFACING
- PROPOSED RIPRAP
- PROPOSED FULL DEPTH PAVEMENT
- EXISTING RIPRAP
- PAVEMENT REMOVAL
- WETLAND BOUNDARY
- ROADSIDE DITCH
- TOP OF CUT
- TOE OF FILL
- TEMPORARY CONSTRUCTION EASEMENT
- DRY SWALE CHECK DAM

LEGEND

- CONSTRUCTION CURVE DESIGNATION
- TRAVERSE POINT LOCATION
- TRAFFIC FLOW
- EXISTING GUARD RAIL
- PROPOSED GUARD RAIL
- BORING LOCATION
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN

INSTALL CLASS I RIPRAP (19" DEPTH)
STA. 108+70.00, LT. - 4 S.Y.
STA. 113+77, RT. - 17 S.Y.
STA. 110+85.28, LT. - 7 S.Y.
STA. 115+17 TO STA. 115+52, RT. - 68 S.Y.

CONSTRUCT STANDARD CURB OPENING
(MD SHA STD. NO. MD 640.01)
STA. 108+70.00, LT. - 1 EA. (LOW POINT)
STA. 110+85.28, LT. - 1 EA. (ON GRADE)

REMOVE AND RELOCATE EXISTING 6 INCH
WATER LINE BLOWOFF
STA. 107+57, LT. - 1 EACH

INSTALL CLASS II RIPRAP
STA. 107+05 TO STA. 107+65, RT. - 175 SY.
STA. 107+60 TO STA. 108+00, LT. - 36 SY.

REFLECTOR W/POLE
TO BE REMOVED
(SEE NOTE 6)

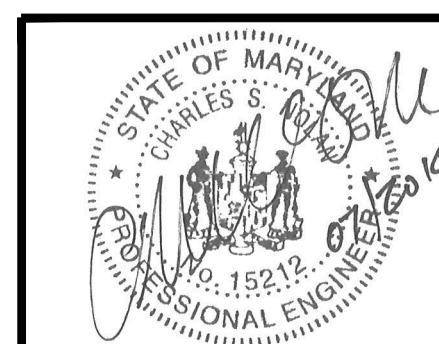
PGL/B CONSTRUCTION
6.1' SHIFT FROM STA. 115+16.74
TO STA. 118+24.71 LT.

NOTES:

- FOR LIMIT OF SOIL STABILIZATION
MATTING IN ROADSIDE DITCH REFER
TO TYPICAL DITCH SECTION OF DWG. 2.
- FOR DRY SWALE CHECK DAM LOCATION
TABLE, SEE DWG. 11.
- FOR PAVEMENT EDGE PLAN AND CONTROL
POINT DATA SEE DWGS. 7-11.
- FOR DRAINAGE STRUCTURE AND PIPE
SCHEDULES SEE DWG. 38.
- EXISTING WATERLINE BLOW OFF PIPE AND CONC.
ENDWALL TO BE REMOVED AND REPLACED WITH
NEW WATERLINE AND FIRE HYDRANT. SEE PLAN
AND PROFILE ON DWG 11.
- COST OF REMOVAL SHALL BE INCIDENTAL TO
CLEARING & GRUBBING PAY ITEM.

FREDERICK COUNTY DIVISION OF PERMITTING AND DEVELOPMENT REVIEW					
APPROVED: <i>[Signature]</i>		DATE: 3/21/11		DEVELOPMENT REVIEW CHIEF	
APPROVED: <i>[Signature]</i>		DATE: 3/21/11		STORMWATER MANAGEMENT	
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REV. #	DATE	DESCRIPTION	REVISION DATE AND INITIAL	CONSULTANT DATE AND INITIAL	REV. REVIEW DATE AND INITIAL
1		ADD RETAINING WALL STA. 187+50 TO 188+79, LT.	7/2014	ESR	

MILL EXISTING PAVEMENT
STA 107+00.00 TO STA 111+97 - 1561 S.Y.
STA 114+60.00 TO STA 116+50 - 531 S.Y.

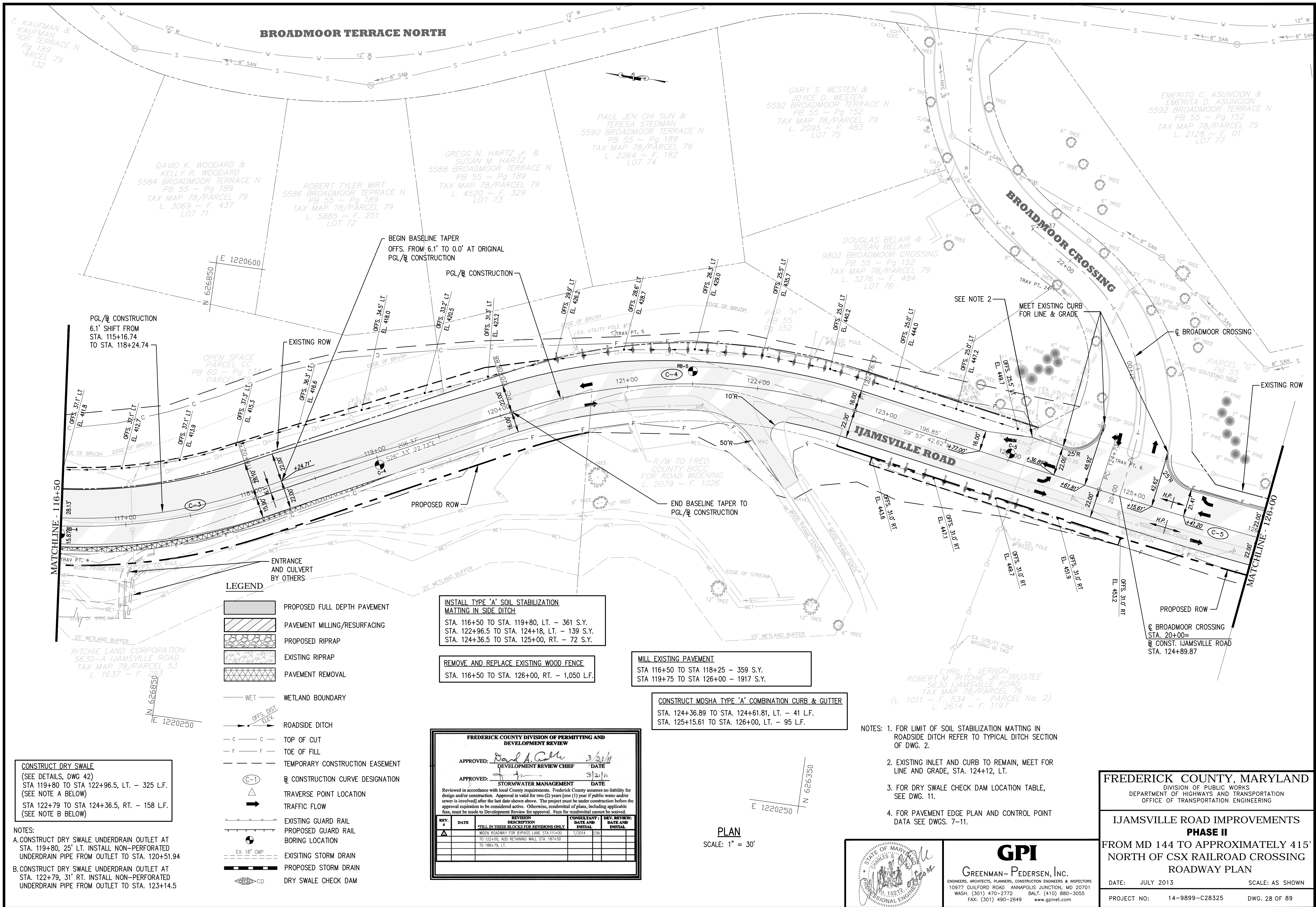


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FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF HIGHWAYS AND TRANSPORTATION
OFFICE OF TRANSPORTATION ENGINEERING

IJAMSVILLE ROAD IMPROVEMENTS
PHASE II
FROM MD 144 TO APPROXIMATELY 415'
NORTH OF CSX RAILROAD CROSSING
ROADWAY PLAN

DATE: JULY 2014 SCALE: AS SHOWN
PROJECT NO: 14-9899-C28325 DWG. 27 OF 89



- NOTES: 1. BASED ON PROPOSED DITCH FLOW CALCULATIONS, THE EXISTING RIPRAP DITCH, STA 128+94 TO STA 136+19, LT. CAN BE REMOVED. THE REMOVAL WILL BE INCLUDED AS PART OF THE CLASS I EXCAVATION PAY ITEM.
2. FOR LIMIT OF SOIL STABILIZATION MATTING IN ROADSIDE DITCH REFER TO TYPICAL DITCH SECTION OF DWG. 2.
3. EXISTING 36" CMP PIPE CULVERT TO BE REMOVED AND REPLACED WITH A 54" RCP AND ENDWALLS. REFER TO DRAINAGE STRUCTURE SCHEDULE AND PIPE SCHEDULE FOR LOCATION, ELEVATIONS AND QUANTITIES. THE COST OF REMOVAL AND DISPOSAL OF EXISTING CULVERT, ENDWALLS AND FOOTINGS WILL BE INCIDENTAL TO THE CONTRACT PRICE OF THE PROPOSED CULVERT PIPE.
4. FOR DRY SWALE CHECK DAM LOCATION TABLE, SEE DWG. 11.
5. FOR PAVEMENT EDGE PLAN AND CONTROL POINT DATA SEE DWGS. 7-11.
6. FOR DRAINAGE STRUCTURE AND PIPE SCHEDULES SEE DWG. 38.

INSTALL TYPE 'A' SOIL STABILIZATION MATTING IN SIDE DITCH

STA. 126+68 TO STA. 128+85, LT. - 244 S.Y.

STA. 128+95 TO STA. 130+07.5, LT. - 122 S.Y.

STA. 130+25 TO STA. 132+00, RT. - 200 S.Y.

STA. 135+25 TO STA. 135+50, RT. - 28 S.Y.

CONSTRUCT MDSHA TYPE 'A' COMBINATION CURB & GUTTER

STA. 126+00 TO STA. 126+40.37, LT. - 40 L.F.

REMOVE AND REPLACE EXISTING WOOD FENCE

STA. 126+00 TO STA. 127+25, RT. - 135 L.F.

STA. 129+68 TO STA. 135+50, RT. - 600 L.F.

PGL/R CONSTRUCTION

PLAN
SCALE: 1" = 30'

LEGEND

- PROPOSED FULL DEPTH PAVEMENT
- PAVEMENT MILLING/RESURFACING
- PROPOSED RIPRAP
- EXISTING RIPRAP
- PAVEMENT REMOVAL
- WETLAND BOUNDARY
- ROADSIDE DITCH
- TOP OF CUT
- TOE OF FILL
- TEMPORARY CONSTRUCTION EASEMENT

LEGEND

- CONSTRUCTION CURVE DESIGNATION
- TRAVERSE POINT LOCATION
- TRAFFIC FLOW
- EXISTING GUARD RAIL
- PROPOSED GUARD RAIL
- BORING LOCATION
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- DRY SWALE CHECK DAM

REMOVE AND DISPOSE OF EXISTING WOOD FENCE

STA 127+25 TO STA 128+50, RT.

(COST INCIDENTAL TO CLEARING AND GRUBBING PAY ITEM)

CONSTRUCT DRY SWALE

(SEE DETAILS, DWG 42)

STA 130+07.5 TO STA 135+50, LT. - 640 L.F.

(SEE NOTE BELOW)

NOTE:

CONSTRUCT DRY SWALE UNDERDRAIN OUTLET AT STA. 128+95, 30' LT. INSTALL NON-PERFORATED UNDERDRAIN PIPE FROM OUTLET TO STA. 130+07.5

FREDERICK COUNTY DIVISION OF PERMITTING AND DEVELOPMENT REVIEW				
APPROVED:	<i>David A. Goley</i>	DATE	3/31/11	
DEVELOPMENT REVIEW CHIEF				
APPROVED:	<i>[Signature]</i>	DATE	3/21/11	
STORMWATER MANAGEMENT				
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REV. #	DATE	REVISION DESCRIPTION	CONSULTANT: DATE AND INITIAL	DEV. REVIEW: DATE AND INITIAL
1		WIDEN ROADWAY FOR BYPASS LANE STA.111+00 TO 122+00, ADD RETAINING WALL STA. 187+50 TO 188+79, LT.	7/2014 CSN	

INSTALL CLASS II RIPRAP (32" DEPTH)

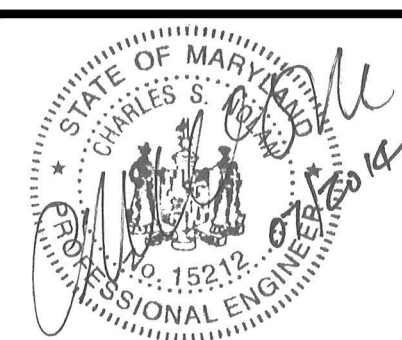
STA. 128+84 TO STA. 128+94, LT. - 6 S.Y.

STA. 128+86 TO STA. 128+97, RT. - 36 S.Y.

MILL EXISTING PAVEMENT

STA 126+00 TO STA 126+40.37 - 140 S.Y.

STA 131+50 TO STA 135+50 - 988 S.Y.



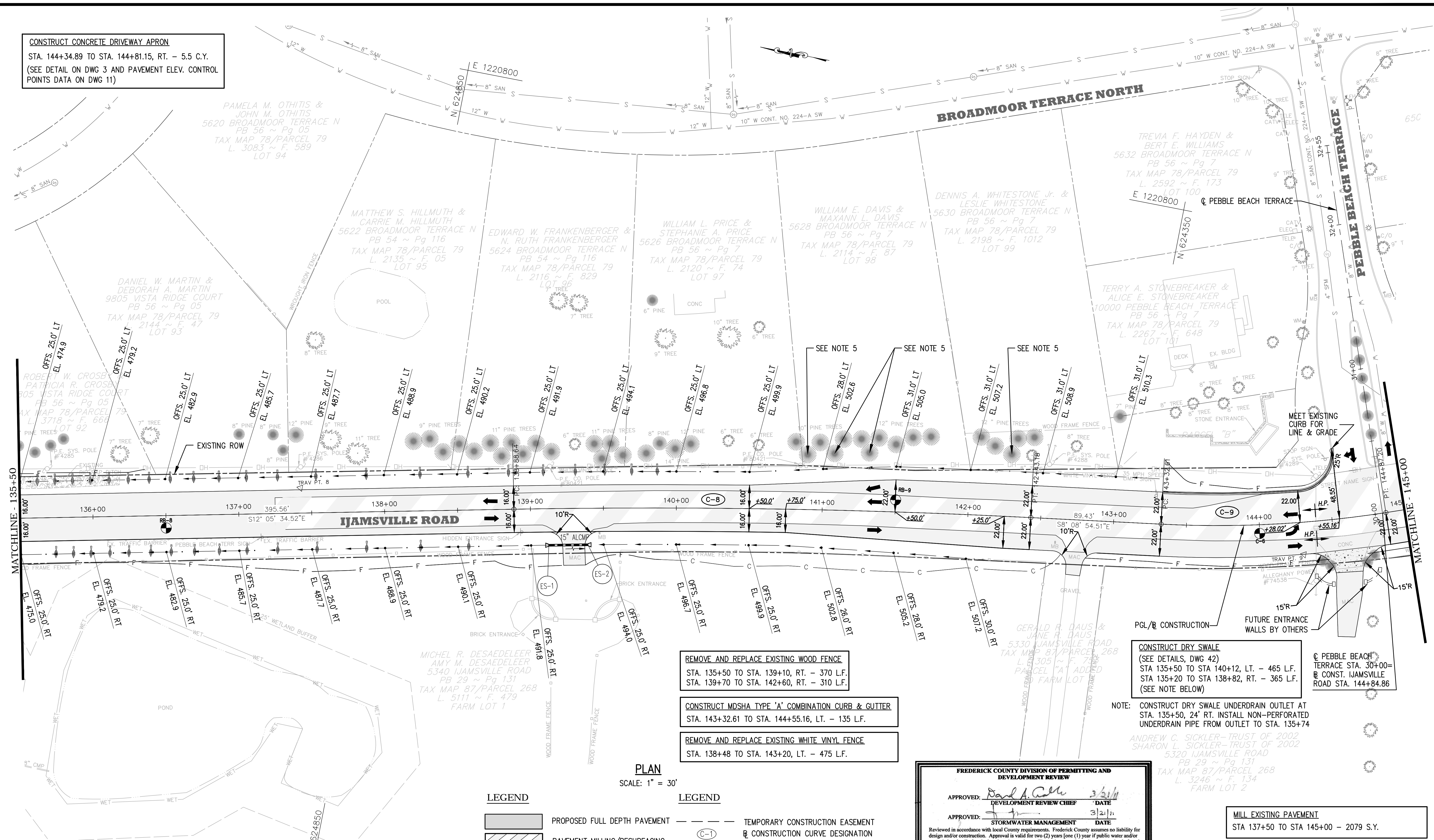
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IJAMSVILLE ROAD IMPROVEMENTS
PHASE II
FROM MD 144 TO APPROXIMATELY 415'
NORTH OF CSX RAILROAD CROSSING
ROADWAY PLAN

DATE: JULY 2014 SCALE: AS SHOWN
PROJECT NO: 14-9899-C28325 DWG. 290F 89

CONSTRUCT CONCRETE DRIVEWAY APRON
STA. 144+34.89 TO STA. 144+81.15, RT. - 5.5 C.Y.
(SEE DETAIL ON DWG 3 AND PAVEMENT ELEV. CONTROL
POINTS DATA ON DWG 11)



- NOTES: 1. FOR LIMIT OF SOIL STABILIZATION MATTING IN ROADSIDE DITCH REFER TO TYPICAL DITCH SECTION OF DWG. 2.
2. FOR DRY SWALE CHECK DAM LOCATION TABLE, SEE DWG. 11.
3. FOR PAVEMENT EDGE PLAN AND CONTROL POINT DATA SEE DWGS. 7-11.
4. FOR DRAINAGE STRUCTURE AND PIPE SCHEDULES SEE DWG. 38.
5. CONTRACTOR SHALL MAKE EVERY POSSIBLE ATTEMPT TO AVOID ANY UNNECESSARY DISTURBANCE TO EXISTING TREES.

INSTALL TYPE 'A' SOIL STABILIZATION MATTING IN SIDE DITCH
STA. 140+12 TO STA. 143+40, LT. - 356 S.Y.
STA. 135+50 TO STA. 135+70, RT. - 22 S.Y.
STA. 138+82 TO STA. 139+16, RT. - 36 S.Y.
STA. 139+43 TO STA. 142+43, RT. - 330 S.Y.

REMOVE EXISTING TRAFFIC BARRIER AND END TREATMENT
STA. 136+15 TO STA. 137+55, RT. - 140 L.F.

LEGEND

[Pattern]	PROPOSED FULL DEPTH PAVEMENT
[Pattern]	PAVEMENT MILLING/RESURFACING
[Pattern]	PROPOSED CONCRETE PAVEMENT
[Pattern]	PROPOSED RIPRAP
[Pattern]	EXISTING RIPRAP
[Pattern]	PAVEMENT REMOVAL
---	WETLAND BOUNDARY
---	ROADSIDE DITCH
---	TOP OF CUT
---	TOE OF FILL

LEGEND

[Symbol]	TEMPORARY CONSTRUCTION EASEMENT
[Symbol]	CONSTRUCTION CURVE DESIGNATION
[Symbol]	TRAVERSE POINT LOCATION
[Symbol]	TRAFFIC FLOW
[Symbol]	EXISTING GUARD RAIL
[Symbol]	PROPOSED GUARD RAIL
[Symbol]	BORING LOCATION
[Symbol]	EXISTING STORM DRAIN
[Symbol]	PROPOSED STORM DRAIN
[Symbol]	DRY SWALE CHECK DAM

REMOVE AND REPLACE EXISTING WOOD FENCE
STA. 135+50 TO STA. 139+10, RT. - 370 L.F.
STA. 139+70 TO STA. 142+60, RT. - 310 L.F.

CONSTRUCT MDSA TYPE 'A' COMBINATION CURB & GUTTER
STA. 143+32.61 TO STA. 144+55.16, LT. - 135 L.F.

REMOVE AND REPLACE EXISTING WHITE VINYL FENCE
STA. 138+48 TO STA. 143+20, LT. - 475 L.F.

CONSTRUCT DRY SWALE
(SEE DETAILS, DWG 42)
STA 135+50 TO STA 140+12, LT. - 465 L.F.
STA 135+20 TO STA 138+82, RT. - 365 L.F.
(SEE NOTE BELOW)

NOTE: CONSTRUCT DRY SWALE UNDERDRAIN OUTLET AT STA. 135+50, 24' RT. INSTALL NON-PERFORATED UNDERDRAIN PIPE FROM OUTLET TO STA. 135+74

ANDREW C. SICKLER-TRUST OF 2002
SHARON L. SICKLER-TRUST OF 2002
5320 IJAMSVILLE ROAD
PB 29 ~ Pg 131
TAX MAP 87/PARCEL 268
L. 3246 ~ F. 134
FARM LOT 2

MILL EXISTING PAVEMENT
STA 137+50 TO STA 145+00 - 2079 S.Y.

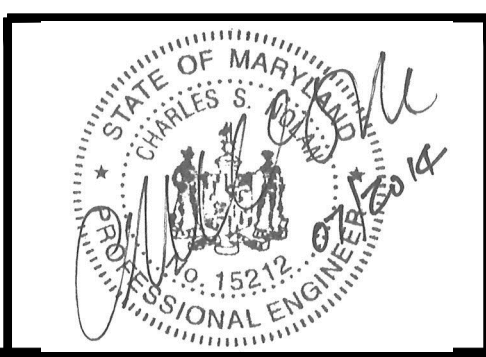
FREDERICK COUNTY DIVISION OF PERMITTING AND DEVELOPMENT REVIEW

APPROVED: [Signature] DATE: 3/21/11

APPROVED: [Signature] DATE: 3/21/11

STORMWATER MANAGEMENT

REV. #	DATE	DESCRIPTION	DATE AND INITIAL	REV. DATE AND INITIAL
1		FILL IN THESE BLOCKS FOR REVISIONS ONLY		
		WIDEN ROADWAY FOR BYPASS LANE STA. 111+00 TO 122+00, ADD RETAINING WALL STA. 187+50 TO 188+79, LT.	7/2014	



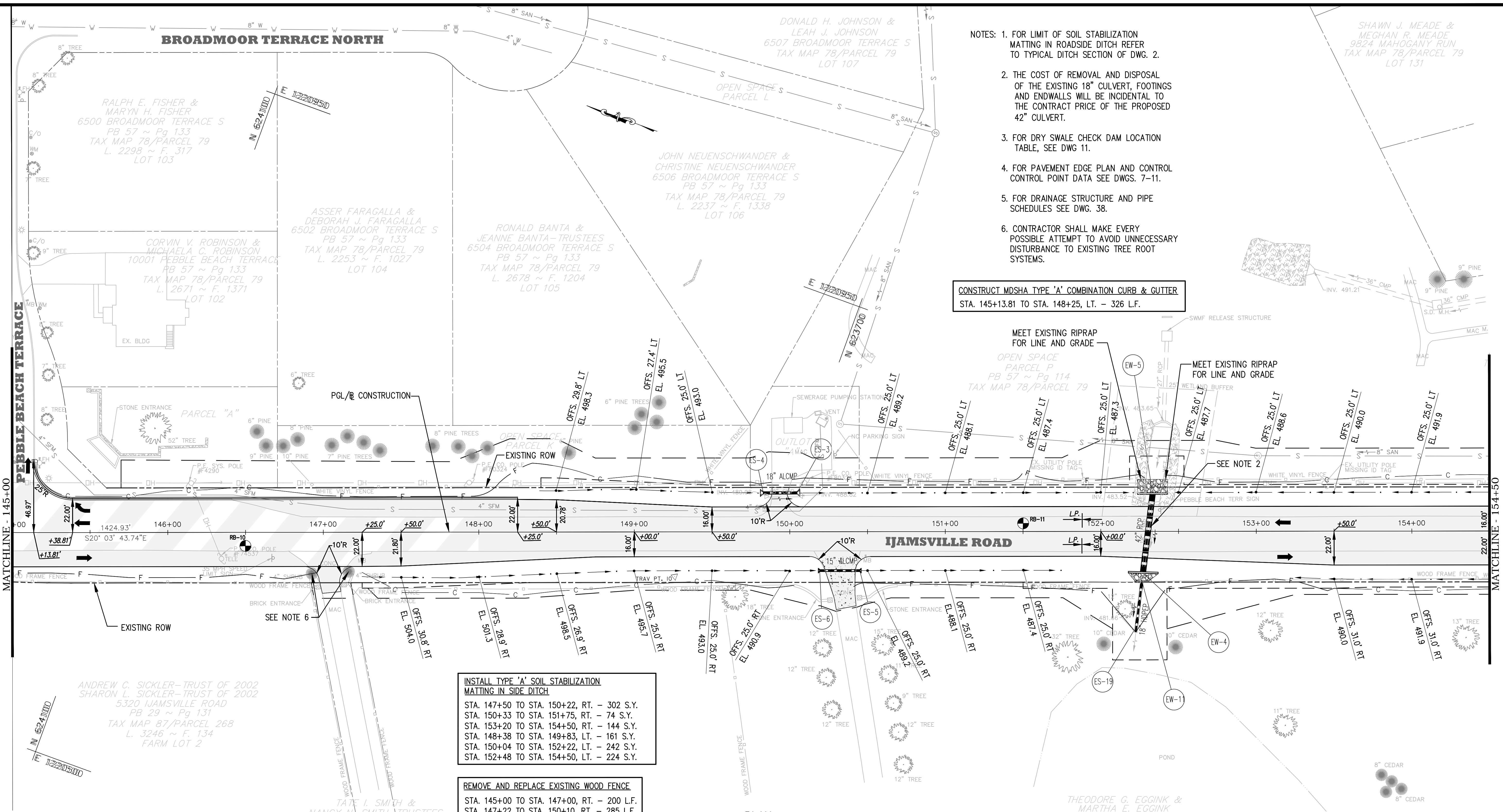
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**IJAMSVILLE ROAD IMPROVEMENTS
PHASE II**
FROM MD 144 TO APPROXIMATELY 415' NORTH OF CSX RAILROAD CROSSING
ROADWAY PLAN

DATE: JULY 2014 SCALE: AS SHOWN

PROJECT NO: 14-9899-C28325 DWG. 30 OF 89



- NOTES:
1. FOR LIMIT OF SOIL STABILIZATION MATTING IN ROADSIDE DITCH REFER TO TYPICAL DITCH SECTION OF DWG. 2.
 2. THE COST OF REMOVAL AND DISPOSAL OF THE EXISTING 18" CULVERT, FOOTINGS AND ENDWALLS WILL BE INCIDENTAL TO THE CONTRACT PRICE OF THE PROPOSED 42" CULVERT.
 3. FOR DRY SWALE CHECK DAM LOCATION TABLE, SEE DWG. 11.
 4. FOR PAVEMENT EDGE PLAN AND CONTROL POINT DATA SEE DWGS. 7-11.
 5. FOR DRAINAGE STRUCTURE AND PIPE SCHEDULES SEE DWG. 38.
 6. CONTRACTOR SHALL MAKE EVERY POSSIBLE ATTEMPT TO AVOID UNNECESSARY DISTURBANCE TO EXISTING TREE ROOT SYSTEMS.

CONSTRUCT MDSHA TYPE 'A' COMBINATION CURB & GUTTER
STA. 145+13.81 TO STA. 148+25, LT. - 326 L.F.

INSTALL TYPE 'A' SOIL STABILIZATION
MATTING IN SIDE DITCH

STA. 147+50 TO STA. 150+22, RT. - 302 S.Y.
STA. 150+33 TO STA. 151+75, RT. - 74 S.Y.
STA. 153+20 TO STA. 154+50, RT. - 144 S.Y.
STA. 148+38 TO STA. 149+83, LT. - 161 S.Y.
STA. 150+04 TO STA. 152+22, LT. - 242 S.Y.
STA. 152+48 TO STA. 154+50, LT. - 224 S.Y.

REMOVE AND REPLACE EXISTING WOOD FENCE

STA. 145+00 TO STA. 147+00, RT. - 200 L.F.
STA. 147+22 TO STA. 150+10, RT. - 285 L.F.
STA. 150+75 TO STA. 154+50, RT. - 375 L.F.

REMOVE AND REPLACE EXISTING WHITE VINYL FENCE

STA. 146+85 TO STA. 149+80, LT. - 320 L.F.
STA. 150+38 TO STA. 154+50, LT. - 430 L.F.
(NOTE: CONTRACTOR TO NOTE AND DOCUMENT FENCE BREAK LOCATION AND WIDTH AT CULVERT ENTRANCE AND SET REPLACEMENT FENCE BREAK AT SAME CONFIGURATION.)

CONSTRUCT CONCRETE DRIVEWAY APRON

STA. 150+12.54 TO STA. 150+51.96, RT. - 7.2 C.Y.
(SEE DETAIL ON DWG 3 AND PAVEMENT ELEV. CONTROL POINTS DATA ON DWG 11)

INSTALL CLASS I RIP RAP (19" DEPTH)

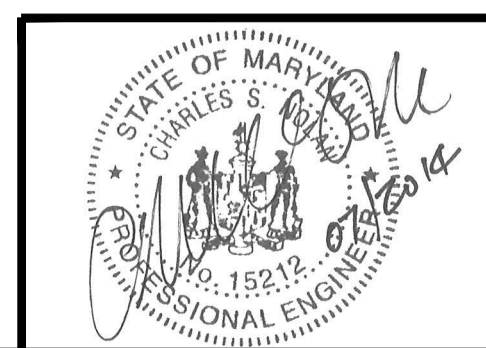
STA. 152+18 TO STA. 152+37, RT. - 14 S.Y.
STA. 152+23 TO STA. 152+43, LT. - 17 S.Y.

MILL EXISTING PAVEMENT

STA 145+00 TO STA 148+00 - 995 S.Y.

PLAN
SCALE: 1" = 30'

FREDERICK COUNTY DIVISION OF PERMITTING AND DEVELOPMENT REVIEW					
APPROVED: <i>David A. Galt</i>		3/21/11		DATE	
DEVELOPMENT REVIEW CHIEF					
APPROVED: <i>[Signature]</i>		3/21/11		DATE	
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GPI
GREENMAN-PEDERSEN, INC.
ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS
10977 GUILFORD ROAD ANNAPOLIS JUNCTION, MD 20701
WASH. (301) 470-2772 BALT. (410) 880-3055
FAX: (301) 490-2649 www.gpinet.com

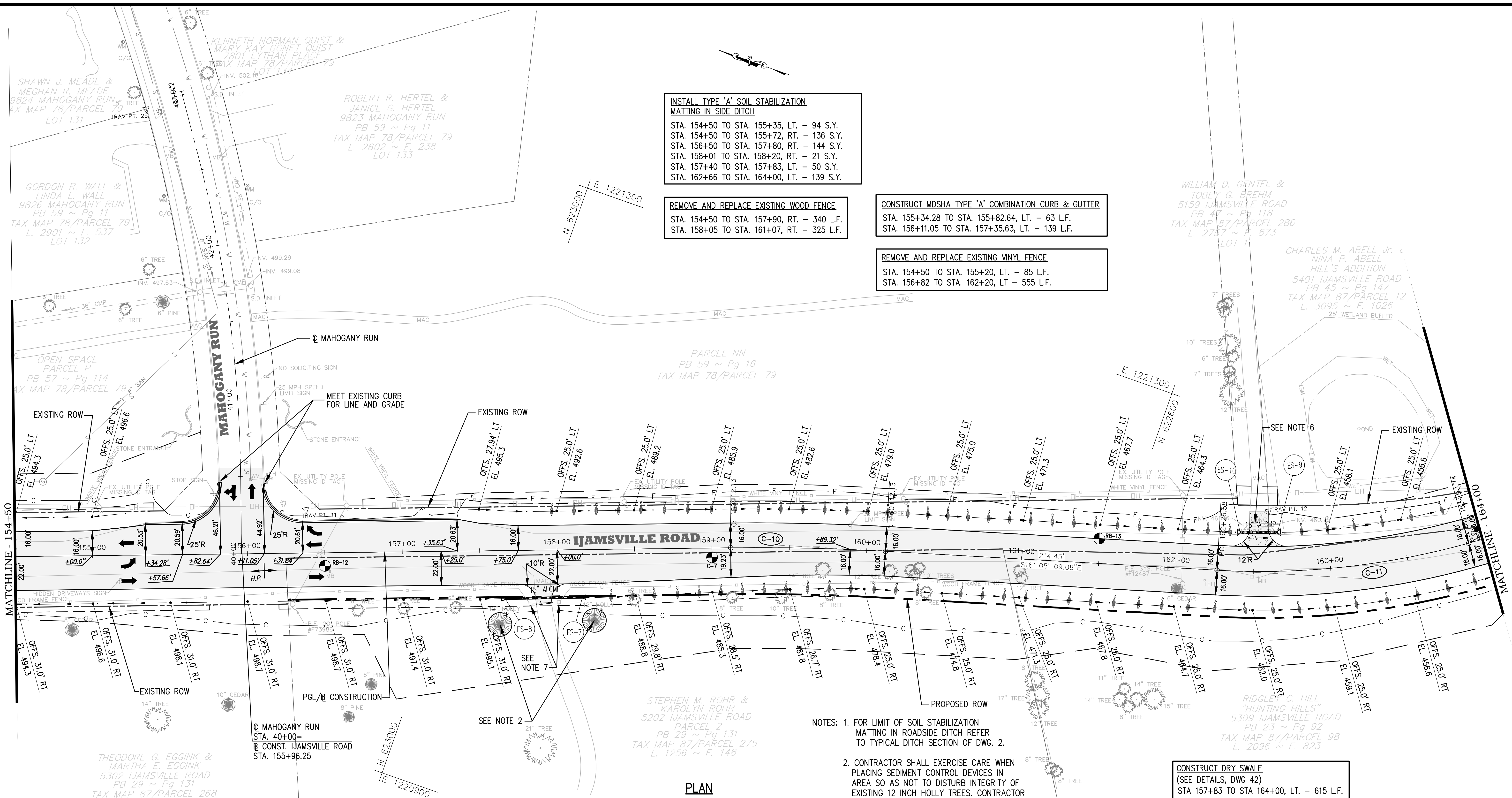
FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF HIGHWAYS AND TRANSPORTATION
OFFICE OF TRANSPORTATION ENGINEERING

IJAMSVILLE ROAD IMPROVEMENTS
PHASE II
FROM MD 144 TO APPROXIMATELY 415'
NORTH OF CSX RAILROAD CROSSING
ROADWAY PLAN

DATE: JULY 2014 SCALE: AS SHOWN
PROJECT NO: 14-9899-C28325 DWG. 31 OF 89

- LEGEND
- PROPOSED FULL DEPTH PAVEMENT
 - PAVEMENT MILLING/RESURFACING
 - PROPOSED CONCRETE PAVEMENT
 - PROPOSED RIPRAP
 - EXISTING RIPRAP
 - PAVEMENT REMOVAL
 - WET
 - WETLAND BOUNDARY
 - ROADSIDE DITCH
 - TOP OF CUT
 - TOE OF FILL

- LEGEND
- TEMPORARY CONSTRUCTION EASEMENT
 - CONSTRUCTION CURVE DESIGNATION
 - TRAVERSE POINT LOCATION
 - TRAFFIC FLOW
 - EXISTING GUARD RAIL
 - PROPOSED GUARD RAIL
 - BORING LOCATION
 - EXISTING STORM DRAIN
 - PROPOSED STORM DRAIN
 - DRY SWALE CHECK DAM



INSTALL TYPE 'A' SOIL STABILIZATION MATTING IN SIDE DITCH

STA. 154+50 TO STA. 155+35, LT. - 94 S.Y.
STA. 154+50 TO STA. 155+72, RT. - 136 S.Y.
STA. 156+50 TO STA. 157+80, RT. - 144 S.Y.
STA. 158+01 TO STA. 158+20, RT. - 21 S.Y.
STA. 157+40 TO STA. 157+83, LT. - 50 S.Y.
STA. 162+66 TO STA. 164+00, LT. - 139 S.Y.

REMOVE AND REPLACE EXISTING WOOD FENCE

STA. 154+50 TO STA. 157+90, RT. - 340 L.F.
STA. 158+05 TO STA. 161+07, RT. - 325 L.F.

CONSTRUCT MDSHA TYPE 'A' COMBINATION CURB & GUTTER

STA. 155+34.28 TO STA. 155+82.64, LT. - 63 L.F.
STA. 156+11.05 TO STA. 157+35.63, LT. - 139 L.F.

REMOVE AND REPLACE EXISTING VINYL FENCE

STA. 154+50 TO STA. 155+20, LT. - 85 L.F.
STA. 156+82 TO STA. 162+20, LT - 555 L.F.

WILLIAM D. GENTEL &
TOBEY G. BREHM
5159 IJAMSVILLE ROAD
PB 47 ~ Pg 118
TAX MAP 87/PARCEL 286
L. 2757 ~ F. 873
LOT 1

CHARLES M. ABELL Jr. &
NINA P. ABELL
HILL'S ADDITION
5401 IJAMSVILLE ROAD
PB 45 ~ Pg 147
TAX MAP 87/PARCEL 12
L. 3095 ~ F. 1026
25' WETLAND BUFFER

RIDGLEY G. HILL
"HUNTING HILLS"
5309 IJAMSVILLE ROAD
PB 23 ~ Pg 92
TAX MAP 87/PARCEL 98
L. 2096 ~ F. 823

- NOTES:
1. FOR LIMIT OF SOIL STABILIZATION MATTING IN ROADSIDE DITCH REFER TO TYPICAL DITCH SECTION OF DWG. 2.
 2. CONTRACTOR SHALL EXERCISE CARE WHEN PLACING SEDIMENT CONTROL DEVICES IN AREA SO AS NOT TO DISTURB INTEGRITY OF EXISTING 12 INCH HOLLY TREES. CONTRACTOR TO INSTALL ORANGE TREE PROTECTION FENCE AROUND PERIMETER OF HOLLY TREES AS DIRECTED BY THE ENGINEER.
 3. FOR DRY SWALE CHECK DAM LOCATION TABLE SEE DWG. 11.
 4. FOR PAVEMENT EDGE PLAN AND CONTROL POINT DATA SEE DWGS. 7-11.
 5. FOR DRAINAGE STRUCTURE AND PIPE SCHEDULES SEE DWG. 38.
 6. REMOVAL AND DISPOSAL OF EXISTING 18"x24" CMP CULVERT TO BE INCIDENTAL TO INSTALLATION OF PROPOSED 18" ALCMP CULVERT.
 7. EXISTING BRICK MASONRY PILLARS TO REMAIN.

CONSTRUCT DRY SWALE
(SEE DETAILS, DWG 42)
STA 157+83 TO STA 164+00, LT. - 615 L.F.
STA 158+20 TO STA 164+00, RT. - 585 L.F.

CONSTRUCT CONCRETE DRIVEWAY APRON
STA. 162+30.54 TO STA. 162+68.67, LT. - 4 C.Y.
(SEE DETAIL ON DWG 3 AND PAVEMENT ELEV. CONTROL POINTS DATA ON DWG 11)

LEGEND

- PROPOSED FULL DEPTH PAVEMENT
- PAVEMENT MILLING/RESURFACING
- PROPOSED CONCRETE PAVEMENT
- PROPOSED RIPRAP
- PAVEMENT REMOVAL

- TREE PROTECTION
- WETLAND BOUNDARY
- ROADSIDE DITCH
- TOP OF CUT
- TOE OF FILL
- TEMPORARY CONSTRUCTION EASEMENT
- CONSTRUCTION CURVE DESIGNATION

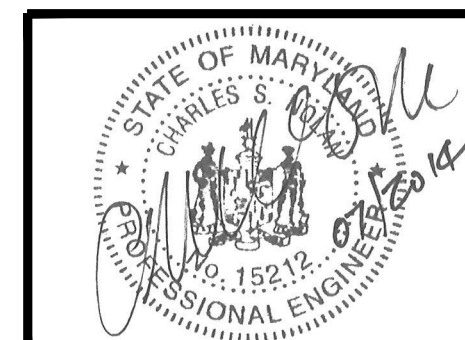
LEGEND

- TRAVERSE POINT LOCATION
- TRAFFIC FLOW
- EXISTING GUARD RAIL
- PROPOSED GUARD RAIL
- BORING LOCATION
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- DRY SWALE CHECK DAM

PLAN

SCALE: 1" = 30'

FREDERICK COUNTY DIVISION OF PERMITTING AND DEVELOPMENT REVIEW					
APPROVED: <i>[Signature]</i>		DATE: 3/21/14		DEVELOPMENT REVIEW CHIEF	
APPROVED: <i>[Signature]</i>		DATE: 3/21/14		STORMWATER MANAGEMENT	
Reviewed in accordance with local County requirements. Frederick County assumes no liability for design and/or construction. Approval is valid for two (2) years (one (1) year if public water and/or sewer is involved) after the last date shown above. The project must be under construction before the approval expiration to be considered active. Otherwise, resubmittal of plans, including applicable fees, must be made to Development Review for approval. Fees for resubmittal cannot be waived.					
REV.	DATE	REVISION	DATE AND INITIAL	CONSULTANT	REV. REVIEW DATE AND INITIAL
1		FILL IN THESE BLOCKS FOR REVISIONS ONLY			
2		WIDEN ROADWAY FOR BYPASS LANE STA. 111+00 TO 122+00; ADD RETAINING WALL STA. 187+50 TO 188+79, LT.	7/2014	CSN	



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DATE: JULY 2014 SCALE: AS SHOWN
PROJECT NO: 14-9899-C28325 DWG. 32 OF 89

CHARLES M. ABELL Jr. &
NINA P. ABELL
HILL'S ADDITION
5401 IJAMSVILLE ROAD
PB 45 ~ Pg 147
TAX MAP 87/PARCEL 12
L. 3095 ~ F. 1026

CLARE K. HILL
5039 IJAMSVILLE ROAD
TAX MAP 87/PARCEL 22
L. 2087 ~ F. 677

RIDGLEY G. HILL
"HUNTING HILLS"
5309 IJAMSVILLE ROAD
PB 23 ~ Pg 92
TAX MAP 87/PARCEL 98
L. 2096 ~ F. 823

LEGEND

- PROPOSED FULL DEPTH PAVEMENT
- PAVEMENT MILLING/RESURFACING
- PROPOSED RIPRAP
- PAVEMENT REMOVAL
- WET WETLAND BOUNDARY
- ROADSIDE DITCH
- TOP OF CUT
- TOE OF FILL
- TEMPORARY CONSTRUCTION EASEMENT
- CONSTRUCTION CURVE DESIGNATION
- TRAVERSE POINT LOCATION
- TRAFFIC FLOW
- EXISTING GUARD RAIL
- PROPOSED GUARD RAIL
- BORING LOCATION
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- DRY SWALE CHECK DAM

CONSTRUCT DRY SWALE
(SEE DETAILS, DWG 42)
STA 164+00 TO STA 173+75, RT. - 968 L.F.
STA 164+00 TO STA 169+60 LT. - 560 L.F.
(SEE NOTE BELOW)

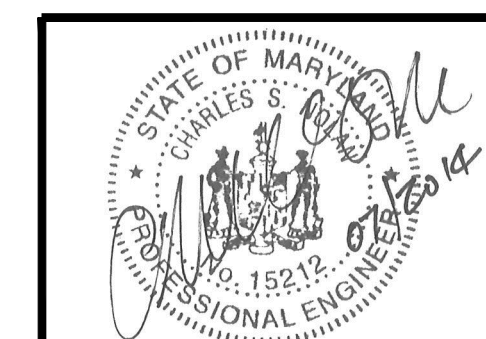
NOTE:
CONSTRUCT DRY SWALE UNDERDRAIN OUTLET AT
STA. 169+60, 25' LT. INSTALL NON-PERFORATED
UNDERDRAIN PIPE FROM OUTLET TO STA. 168+55.4

- NOTES: 1. FOR LIMIT OF SOIL STABILIZATION MATTING IN ROADSIDE DITCH REFER
TO TYPICAL DITCH SECTION OF DWG. 2.
2. FOR DRY SWALE CHECK DAM LOCATION TABLE, SEE DWG 11.
3. FOR PAVEMENT EDGE PLAN AND CONTROL POINT DATA SEE DWGS. 7-11.
4. FOR DRAINAGE STRUCTURE AND PIPE SCHEDULES SEE DWG. 38.
5. REMOVAL AND DISPOSAL OF EXISTING 12"x18" CMP CULVERT TO BE
INCIDENTAL TO INSTALLATION OF PROPOSED 18" ALCMP CULVERT.

PLAN

SCALE: 1" = 30'

FREDERICK COUNTY DIVISION OF PERMITTING AND DEVELOPMENT REVIEW					
APPROVED: <i>David A. Galt</i>		DEVELOPMENT REVIEW CHIEF		DATE: 3/21/11	
APPROVED: <i>[Signature]</i>		STORMWATER MANAGEMENT		DATE: 3/21/11	
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1		FILL IN THESE BLOCKS FOR REVISIONS ONLY			
		WIDEN ROADWAY FOR BYPASS LANE STA.111+00 TO 122+00, ADD RETAINING WALL STA. 187+50 TO 188+79, LT.	7/2014	CSN	



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ROADWAY PLAN

DATE: JULY 2014 SCALE: AS SHOWN
PROJECT NO: 14-9899-C28325 DWG. 33 OF 89

INSTALL TYPE 'A' SOIL STABILIZATION
MATting IN SIDE DITCH

STA. 175+63 TO STA. 176+86, LT. - 140 S.Y.
STA. 177+05 TO STA. 177+20, LT. - 17 S.Y.
STA. 177+44 TO STA. 179+42, LT. - 224 S.Y.
STA. 175+50 TO STA. 177+00, RT. - 160 S.Y.

INSTALL TRAFFIC BARRIER W BEAM

STA. 174+28 TO STA. 175+35, RT. - 106 L.F.
STA. 174+81 TO STA. 175+78, LT. - 100 L.F.
STA. 178+50 TO STA. 178+93, RT. - 50 L.F.
STA. 179+09 TO STA. 183+25, RT. - 425 L.F.
STA. 182+20 TO STA. 182+93, LT. - 80 L.F.

INSTALL TYPE 'K' TRAFFIC BARRIER END TREATMENT

STA. 178+93, RT. - 1 EA
STA. 182+93, LT. - 1 EA
STA. 179+09, RT. - 1 EA

INSTALL TYPE 'C' TRAFFIC BARRIER END TREATMENT

STA. 174+28, RT. - 1 EA
STA. 175+35, RT. - 1 EA
STA. 174+81, LT. - 1 EA
STA. 175+78, LT. - 1 EA
STA. 178+50, RT. - 1 EA
STA. 179+80, LT. - 1 EA

CONSTRUCT MDSA TYPE 'A' COMBINATION CURB & GUTTER

STA. 179+50 TO STA. 180+00, LT. - 50 L.F.
STA. 182+00 TO STA. 182+50, LT. - 50 L.F.

CONSTRUCT 5" CONCRETE DITCH

(MD SHA STD. NO. MD 378.05 AND 389.01)
STA. 177+31.93, LT.-6.7 S.Y.

- NOTES: 1. FOR LIMIT OF SOIL STABILIZATION MATting IN ROADSIDE DITCH REFER TO TYPICAL DITCH SECTION OF DWG. 2.
2. UNDERGROUND COMMUNICATION CABLE IS PRESENT IN THE AREA BETWEEN STA. 176+60 TO 177+05±. NO INFORMATION WAS AVAILABLE AS TO TYPE, SIZE, DEPTH OR EXACT LOCATION. CONTRACTOR TO VERIFY WITH MISS UTILITY AND COORDINATE RELOCATION WITH APPROPRIATE UTILITY AUTHORITY.
3. THE COST OF REMOVAL AND DISPOSAL OF THE EXISTING 42" X 29" CULVERT, ENDWALLS AND FOOTINGS WILL BE INCIDENTAL TO THE CONTRACT PRICE OF THE PROPOSED 42" CULVERT.
4. FOR DRY SWALE CHECK DAM LOCATION TABLE, SEE DWG. 11.
5. REMOVAL AND DISPOSAL OF EXISTING 18" CMP CULVERT TO BE INCIDENTAL TO INSTALLATION OF PROPOSED 18" ALCMP CULVERT.
6. FOR PAVEMENT EDGE PLAN AND CONTROL POINT DATA SEE DWGS. 7-11.
7. FOR DRAINAGE STRUCTURE AND PIPE SCHEDULES SEE DWG. 38.

RETAINING WALL DATA

STATION	OFFSET	GROUND ELEVATION AT FRONT FACE OF WALL	TOP OF WALL ELEVATION	EXPPOSED HEIGHT OF WALL
180+00	17' LEFT	406.97	409.80	2.83'
180+25	17' LEFT	407.06	412.06	5.00'
180+50	17' LEFT	407.09	413.00	5.91'
180+75	17' LEFT	406.92	413.00	6.08'
181+00	17' LEFT	406.44	413.00	6.56'
181+25	17' LEFT	405.82	412.00	6.18'
181+50	17' LEFT	405.17	410.17	5.00'
181+75	17' LEFT	405.53	408.36	2.83'
182+00	17' LEFT	404.01	406.84	2.83'

* TO FACE OF WALL AT EDGE OF PAVEMENT

INSTALL TRAFFIC BARRIER W-BEAM ANCHORAGE PER
MD STD. NO. MD 605.43 EXCEPT ELIMINATE RUB RAIL
(CURB SERVES AS RUB RAIL)

STA. 179+80 TO STA. 180+00, 17' LT. - 1 EA
STA. 182+00 TO STA. 182+20, 17' LT. - 1 EA

INSTALL 4'-0" FARM TYPE FENCE BEHIND WALL PER
MD STD. NO. MD 690.03

STA. 180+25 TO STA. 181+75, LT. - 146 L.F.
NOTE: POSTS TO BE SET A MINIMUM OF 3 FEET FROM
BACK FACE OF RETAINING WALL AS TO NOT
IMPACT AGGREGATE BACKFILL AND GEOTEXTILE.

REMOVE EXISTING PIPE CULVERT
STA. 177+58 - 38 L.F.

LEGEND

- PROPOSED FULL DEPTH PAVEMENT
- PAVEMENT MILLING/RESURFACING
- PROPOSED RIPRAP
- PAVEMENT REMOVAL
- WETLAND BOUNDARY
- ROADSIDE DITCH
- TOP OF CUT
- TOE OF FILL
- TEMPORARY CONSTRUCTION EASEMENT
- CONSTRUCTION CURVE DESIGNATION
- TRAVERSE POINT LOCATION
- TRAFFIC FLOW
- EXISTING GUARD RAIL
- PROPOSED GUARD RAIL
- BORING LOCATION
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- DRY SWALE CHECK DAM

INSTALL CLASS I RIPRAP (19" DEPTH)

STA. 174+65 TO STA. 175+08, LT. - 49 S.Y.
STA. 174+79 TO 175+50, RT. - 129 S.Y.
STA. 177+00 TO 177+42, RT. - 53 S.Y.

CONSTRUCT CONCRETE RETAINING WALL PER DETAIL
FOR F SHAPE CONCRETE TRAFFIC BARRIER 34 INCHES
TO 82 INCHES ON DWG. 4. SEE WALL DATA TABLE
THIS SHEET FOR LOCATION AND ELEVATIONS FOR WALL
STA. 180+00 TO 182+00, LT - LUMP SUM

CONSTRUCT DRY SWALE

(SEE DETAILS, DWG 42)
STA. 173+75 TO STA. 175+17, RT. - 140 L.F.
(SEE NOTE BELOW)

NOTE:
CONSTRUCT DRY SWALE UNDERDRAIN OUTLET AT
STA. 175+17, 25' RT. INSTALL NON-PERFORATED
UNDERDRAIN PIPE FROM OUTLET TO STA. 174+51.7

PLAN

SCALE: 1" = 30'

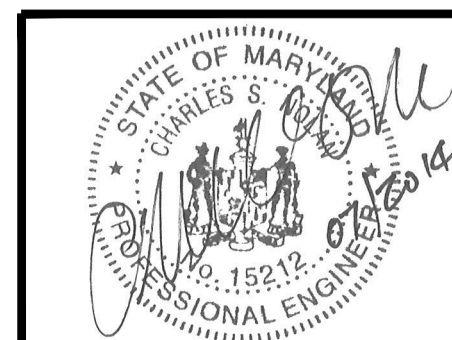
FREDERICK COUNTY DIVISION OF PERMITTING AND
DEVELOPMENT REVIEW

APPROVED: *[Signature]* 3/21/11
DEVELOPMENT REVIEW CHIEF DATE

APPROVED: *[Signature]* 3/21/11
STORMWATER MANAGEMENT DATE

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REV. #	DATE	REVISION DESCRIPTION	CONSULTANT: DATE AND INITIAL	DEV. REVIEW: DATE AND INITIAL
1	7/20/14	ADD ROADWAY FOR BYPASS LANE STA. 171+00 TO 172+00, ADD RETAINING WALL STA. 171+50 TO 188+79, LT.	SN	



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IJAMSVILLE ROAD IMPROVEMENTS
PHASE II
FROM MD 144 TO APPROXIMATELY 415'
NORTH OF CSX RAILROAD CROSSING
ROADWAY PLAN

DATE: JULY 2014 SCALE: AS SHOWN

PROJECT NO: 14-9899-C28325 DWG. 34 OF 89

CONSTRUCT RETAINING WALL
PER DETAIL FOR SHAPE CONCRETE TRAFFIC BARRIER
34 INCHES TO 82 INCHES ON DWG. 4. SEE WALL DATA
TABLE IN OLDEN DRIVEWAY DETAILS, DWG. 25A
STA. 187+50 TO STA. 188+65.14 - LUMP SUM

REMOVE EXISTING WIRE FENCE
STA. 184+92 TO STA. 187+67, LT. - 300 L.F.
STA. 189+20 TO STA. 192+00, LT. - 285 L.F.

INSTALL BLACK COATED CHAIN LINK FENCE
STA. 184+92 TO STA. 187+67, LT. - 300 L.F.
STA. 189+25 TO STA. 192+00, LT. - 290 L.F.

REMOVE EXISTING TRAFFIC BARRIER AND END TREATMENT
STA. 191+40 TO STA. 192+20, LT. - 95 L.F.
STA. 191+98 TO STA. 192+52, LT. - 52 L.F.

CONSTRUCT MDSHA TYPE 'A' COMBINATION CURB & GUTTER
STA. 188+64.14 TO STA. 188+79.31, LT. - 26 L.F.
STA. 188+88.96 TO STA. 191+25, LT. - 260 L.F.

INSTALL CLASS I RIPRAP (19" DEPTH)
STA. 183+50, RT. - 24 S.Y.
STA. 191+90 TO 192+12, LT. - 23 S.Y.
STA. 192+36 TO 192+62, RT. - 28 S.Y.

CONSTRUCT 5' CONCRETE DITCH
(MDSHA STD. NO. MD 378.05 AND 389.01)
STA. 183+50, LT. - 6.7 S.Y.
STA. 186+34.5, LT. - 6.7 S.Y.

INSTALL TYPE 'C' TRAFFIC BARRIER END TREATMENT
STA. 187+00, RT. - 1 EA
STA. 189+50, RT. - 1 EA

INSTALL TRAFFIC BARRIER W-BEAM
STA. 183+25 TO STA. 187+00, RT. - 375 L.F.
STA. 189+50 TO STA. 192+75, RT. - 325 L.F.

INSTALL TYPE 'A' SOIL STABILIZATION
MATting IN SIDE DITCH
STA. 183+25 TO STA. 183+38, LT. - 14 S.Y.
STA. 183+62 TO STA. 186+20, LT. - 287 S.Y.
STA. 186+47 TO STA. 187+02, LT. - 61 S.Y.
STA. 183+50 TO STA. 187+50, RT. - 444 S.Y.

REMOVE EXISTING CULVERT PIPE
STA. 186+32 - 30 L.F.
STA. 192+45 - 41 L.F.
(NOTE: REMOVAL OF ANY EXISTING HEADWALL
AND FOOTING WILL BE INCIDENTAL TO
CULVERT REMOVAL CONTRACT UNIT
PRICE.)

RUSSELL C. OLDEN, ETAL
4909 IJAMSVILLE ROAD
TAX MAP 87/PARCEL 139
L. 2002 ~ F. 1118

REFER TO OLDEN DRIVEWAY
DETAILS SHEET, DWG 25A

SEE NOTE 5

PROPOSED ROW

PROPOSED ROW

SEE NOTE 2

PLAN
SCALE: 1" = 30'

- NOTES: 1. FOR LIMIT OF SOIL STABILIZATION MATting IN ROADSIDE
DITCH REFER TO TYPICAL DITCH SECTION OF DWG. 2.
2. THE COST OF REMOVAL AND DISPOSAL OF THE EXISTING
38" X 57" CULVERT, HEADWALLS AND FOOTINGS WILL BE
INCIDENTAL TO THE CONTRACT PRICE OF THE PROPOSED
48" CULVERT.
3. FOR PAVEMENT EDGE PLAN AND CONTROL POINT DATA SEE
DWGS. 7-11.
4. FOR DRAINAGE STRUCTURE AND PIPE SCHEDULES SEE DWG. 38.
5. WOOD FROM EXISTING TREE REMOVAL TO REMAIN ON PROPERTY
FOR OWNER'S USE.

LEGEND

- PROPOSED FULL DEPTH PAVEMENT
- PAVEMENT MILLING/RESURFACING
- PROPOSED RIPRAP
- PAVEMENT REMOVAL
- WETLAND BOUNDARY
- ROADSIDE DITCH

LEGEND

- TOP OF CUT
- TOE OF FILL
- TEMPORARY CONSTRUCTION EASEMENT
- CONSTRUCTION CURVE DESIGNATION
- TRAVERSE POINT LOCATION
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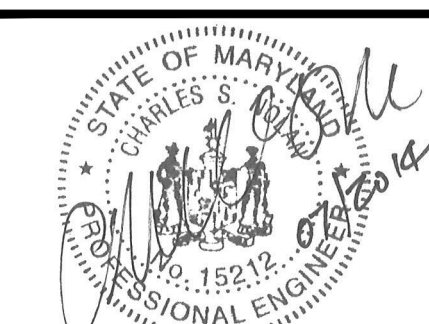
FREDERICK COUNTY DIVISION OF PERMITTING AND DEVELOPMENT REVIEW

APPROVED: *David A. Galt* 3/21/11
DEVELOPMENT REVIEW CHIEF DATE

APPROVED: *[Signature]* 3/21/11
STORMWATER MANAGEMENT DATE

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		WIDEN ROADWAY FOR BYPASS LANE STA. 111+00	7/2014 CSN	
		TO 122+00, ADD RETAINING WALL STA. 187+50		
		TO 188+79, LT.		



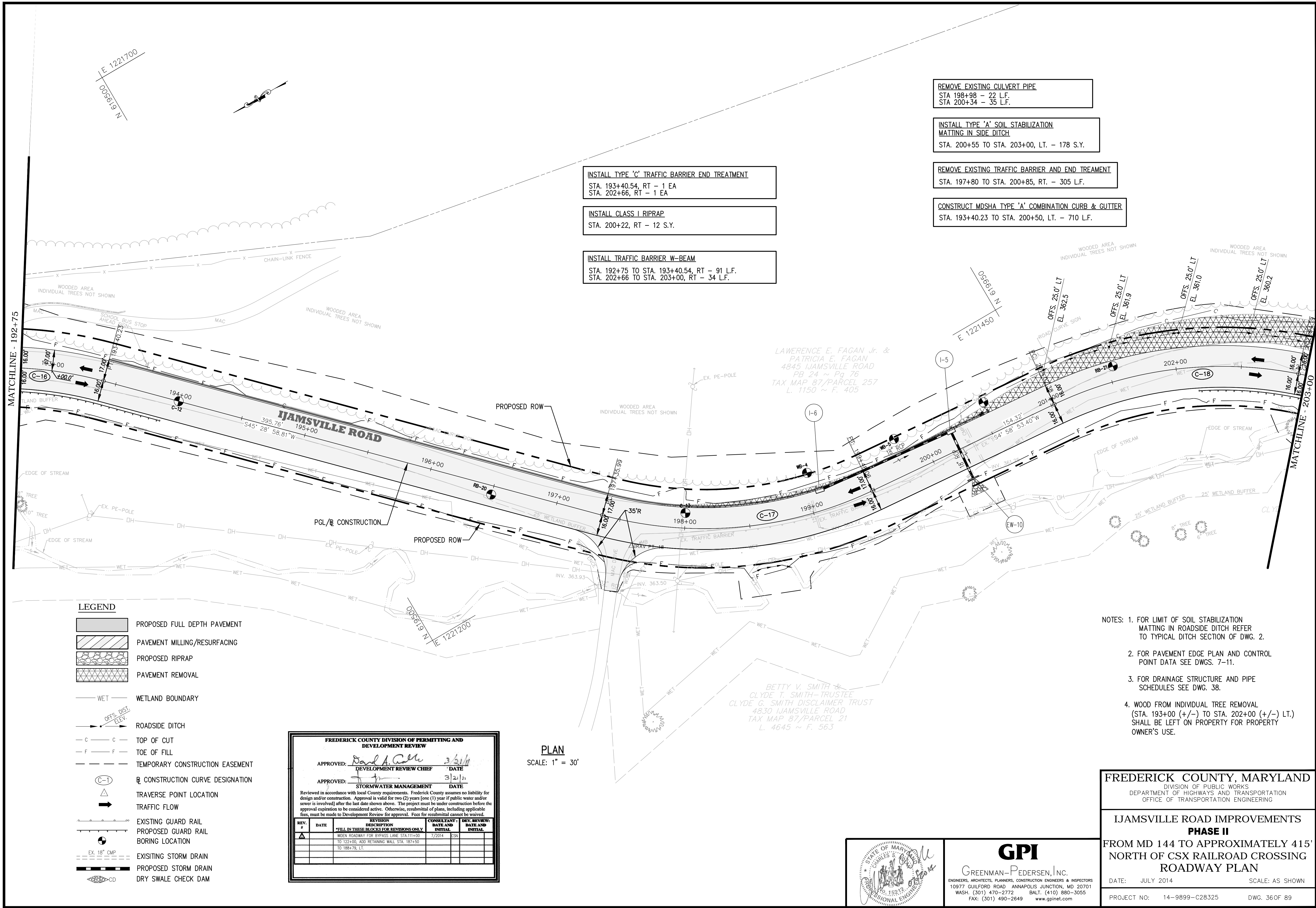
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DATE: JULY 2014 SCALE: AS SHOWN

PROJECT NO: 14-9899-C28325 DWG. 35 OF 89



REMOVE EXISTING CULVERT PIPE
STA 198+98 - 22 L.F.
STA 200+34 - 35 L.F.

INSTALL TYPE 'A' SOIL STABILIZATION
MATTING IN SIDE DITCH
STA. 200+55 TO STA. 203+00, LT. - 178 S.Y.

REMOVE EXISTING TRAFFIC BARRIER AND END TREATMENT
STA. 197+80 TO STA. 200+85, RT. - 305 L.F.

CONSTRUCT MDSA TYPE 'A' COMBINATION CURB & GUTTER
STA. 193+40.23 TO STA. 200+50, LT. - 710 L.F.

INSTALL TYPE 'C' TRAFFIC BARRIER END TREATMENT
STA. 193+40.54, RT - 1 EA
STA. 202+66, RT - 1 EA

INSTALL CLASS I RIPRAP
STA. 200+22, RT - 12 S.Y.

INSTALL TRAFFIC BARRIER W-BEAM
STA. 192+75 TO STA. 193+40.54, RT - 91 L.F.
STA. 202+66 TO STA. 203+00, RT - 34 L.F.

LEGEND

- PROPOSED FULL DEPTH PAVEMENT
- PAVEMENT MILLING/RESURFACING
- PROPOSED RIPRAP
- PAVEMENT REMOVAL
- WETLAND BOUNDARY
- ROADSIDE DITCH
- TOP OF CUT
- TOE OF FILL
- TEMPORARY CONSTRUCTION EASEMENT
- CONSTRUCTION CURVE DESIGNATION
- TRAVERSE POINT LOCATION
- TRAFFIC FLOW
- EXISTING GUARD RAIL
- PROPOSED GUARD RAIL
- BORING LOCATION
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- DRY SWALE CHECK DAM

FREDERICK COUNTY DIVISION OF PERMITTING AND DEVELOPMENT REVIEW

APPROVED: *[Signature]* 3/5/14
DEVELOPMENT REVIEW CHIEF DATE

APPROVED: *[Signature]* 3/21/14
STORMWATER MANAGEMENT DATE

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REV. #	DATE	REVISION DESCRIPTION	DATE AND INITIAL	DEV. REVIEW DATE AND INITIAL
1		WIDEN ROADWAY FOR BYPASS LANE STA. 111+00 TO 122+00, ADD RETAINING WALL STA. 187+50 TO 188+79, LT.	7/2014	

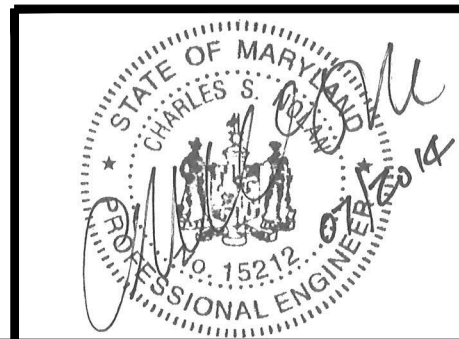
PLAN
SCALE: 1" = 30'

- NOTES: 1. FOR LIMIT OF SOIL STABILIZATION MATTING IN ROADSIDE DITCH REFER TO TYPICAL DITCH SECTION OF DWG. 2.
2. FOR PAVEMENT EDGE PLAN AND CONTROL POINT DATA SEE DWGS. 7-11.
3. FOR DRAINAGE STRUCTURE AND PIPE SCHEDULES SEE DWG. 38.
4. WOOD FROM INDIVIDUAL TREE REMOVAL (STA. 193+00 (+/-) TO STA. 202+00 (+/-) LT.) SHALL BE LEFT ON PROPERTY FOR PROPERTY OWNER'S USE.

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF HIGHWAYS AND TRANSPORTATION
OFFICE OF TRANSPORTATION ENGINEERING

IJAMSVILLE ROAD IMPROVEMENTS
PHASE II
FROM MD 144 TO APPROXIMATELY 415'
NORTH OF CSX RAILROAD CROSSING
ROADWAY PLAN

DATE: JULY 2014 SCALE: AS SHOWN
PROJECT NO: 14-9899-C28325 DWG. 36 OF 89



GPI
GREENMAN-PEDERSEN, INC.
ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS
10977 GUILFORD ROAD ANNAPOLIS JUNCTION, MD 20701
WASH. (301) 470-2772 BALT. (410) 880-3055
FAX: (301) 490-2649 www.gpinet.com

- NOTES: 1. FOR LIMIT OF SOIL STABILIZATION MATTING IN ROADSIDE DITCH REFER TO TYPICAL DITCH SECTION OF DWG. 2.
2. THE COST OF REMOVAL AND DISPOSAL OF THE EXISTING 47" X 71" CULVERT, FOOTINGS AND ENDWALLS WILL BE INCIDENTAL TO THE CONTRACT PRICE OF THE PROPOSED 48" X 76" CULVERT.
3. FULL DEPTH PAVEMENT RECONSTRUCTION REQUIRED TO MEET CONT. NO. 14-9899-C27515 AT STA. 211+46.06. AN ADDITIONAL 35.52 FEET OF MILLING/OVERLAY WILL BE REQUIRED TO DEVELOP PROPER SUPER ELEVATION TRANSITION FROM PLANE INCLINE TO NORMAL CROWN ALONG CONT. NO. 14-9899-C27515 ALIGNMENT.
4. FOR PAVEMENT EDGE PLAN AND CONTROL POINT DATA SEE DWGS. 7-11.
5. FOR DRAINAGE STRUCTURE AND PIPE SCHEDULES SEE DWG. 38.
6. THE EXISTING TREE/TREES NOTED ARE OUTSIDE OF THE LIMIT OF DISTURBANCE (EVEN THOUGH WITHIN THE TEMPORARY CONSTRUCTION EASEMENT) THEREFORE SHALL NOT BE DISTURBED. CONTRACTOR SHALL MAKE EVERY POSSIBLE ATTEMPT TO AVOID UNNECESSARY DISTURBANCE TO EXISTING TREE ROOT SYSTEMS.

INSTALL TYPE 'C' TRAFFIC BARRIER END TREATMENT
STA. 204+32, LT - 1 EA
STA. 209+54, LT - 1 EA

REMOVE EXISTING PIPE CULVERT
STA. 209+43 - 30 L.F.

INSTALL TYPE 'K' TRAFFIC BARRIER END TREATMENT
STA. 204+12, RT. - 1 EA
STA. 205+92, LT. - 1 EA
STA. 206+07, LT. - 1 EA

INSTALL CLASS I RIPRAP
STA. 203+57 TO STA. 204+01, RT. - 84 S.Y.
STA. 204+30 TO STA. 204+70, LT. - 49 S.Y.

REMOVE EXISTING WIRE FENCE
STA. 203+64 TO STA. 204+61, RT. - 97 L.F.
STA. 206+29 TO STA. 207+80 - 151 L.F.

INSTALL TYPE 'A' SOIL STABILIZATION
MATTING IN SIDE DITCH
STA. 203+00 TO STA. 204+30, LT. - 145 S.Y.

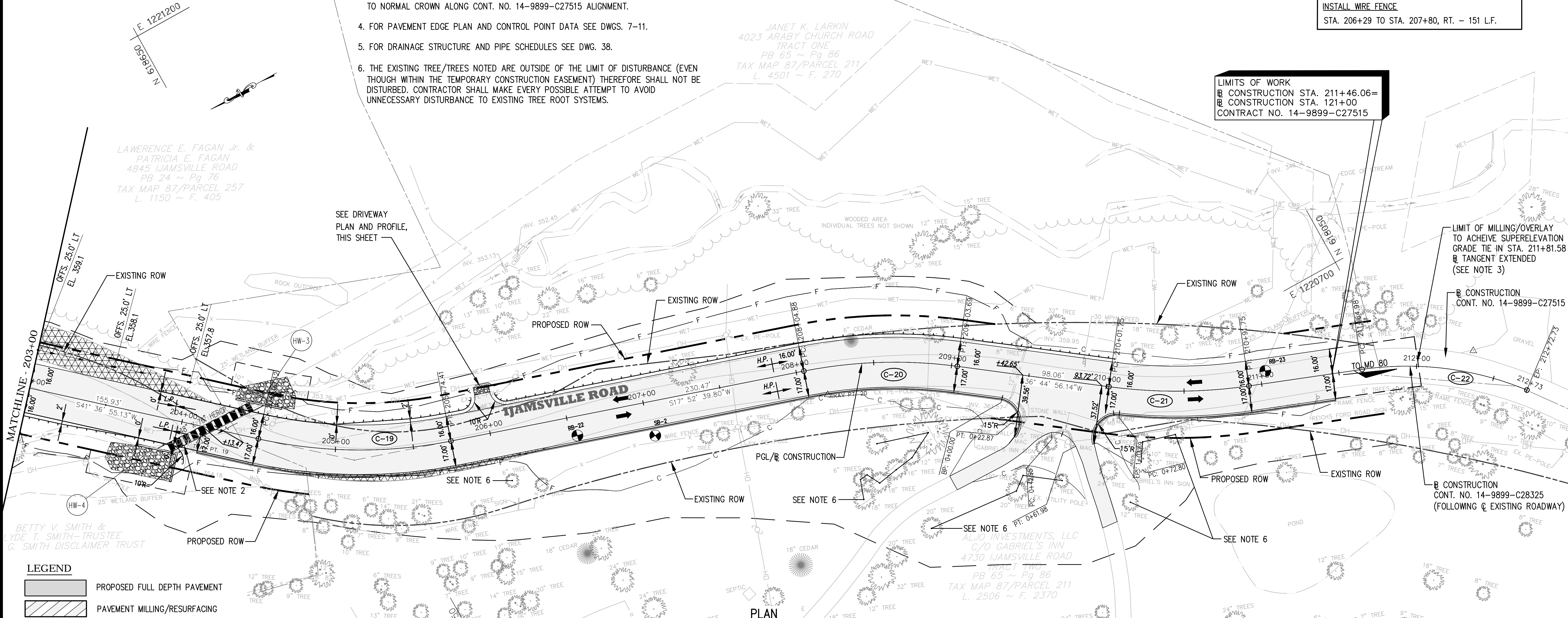
CONSTRUCT MDSHA TYPE 'A' COMBINATION CURB & GUTTER
STA. 204+14 TO STA. 209+46 RT. - 553 L.F.
STA. 209+97 TO STA. 211+46.06, RT. - 168 L.F.

INSTALL TRAFFIC BARRIER W-BEAM
STA. 203+00 TO STA. 204+12, RT. - 118 L.F.
STA. 204+32 TO STA. 205+92, LT. - 206 L.F.
STA. 206+07 TO STA. 209+54, LT. - 404 L.F.

NOTE:
REFER TO MDSHA STD. NO. MD605.26 FOR POST
PLACEMENT DETAILS FOR SPANNING HW-3 AND HW-4.

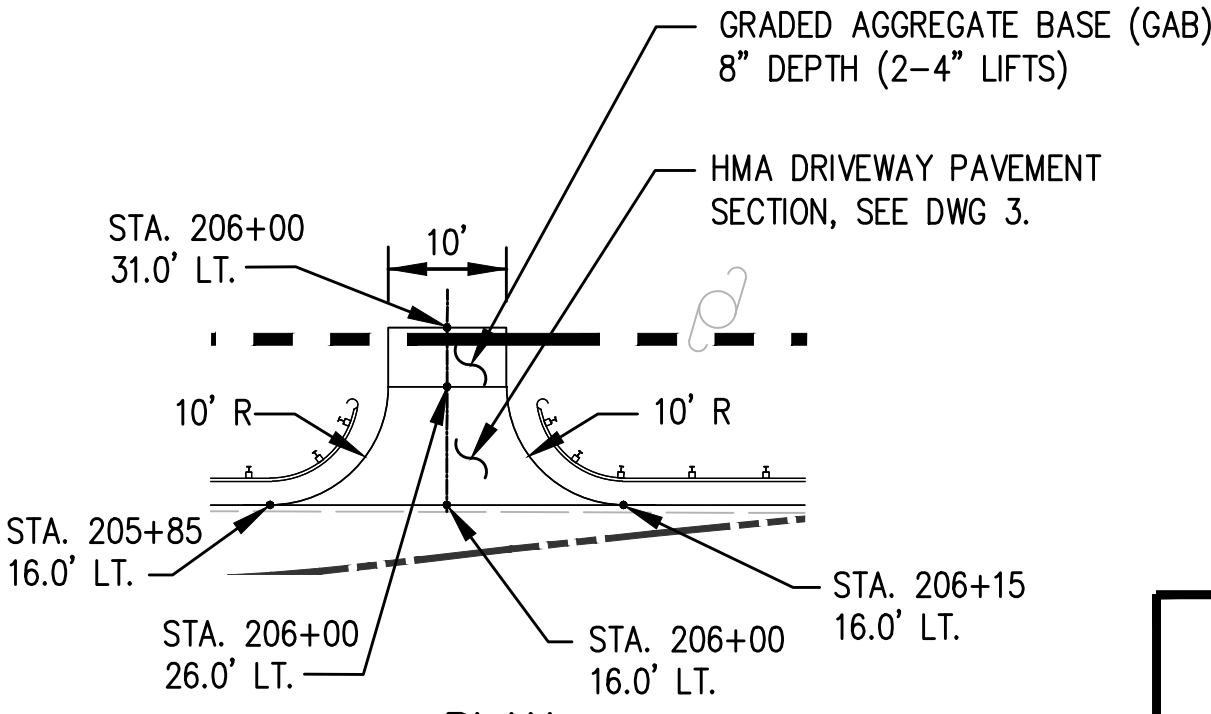
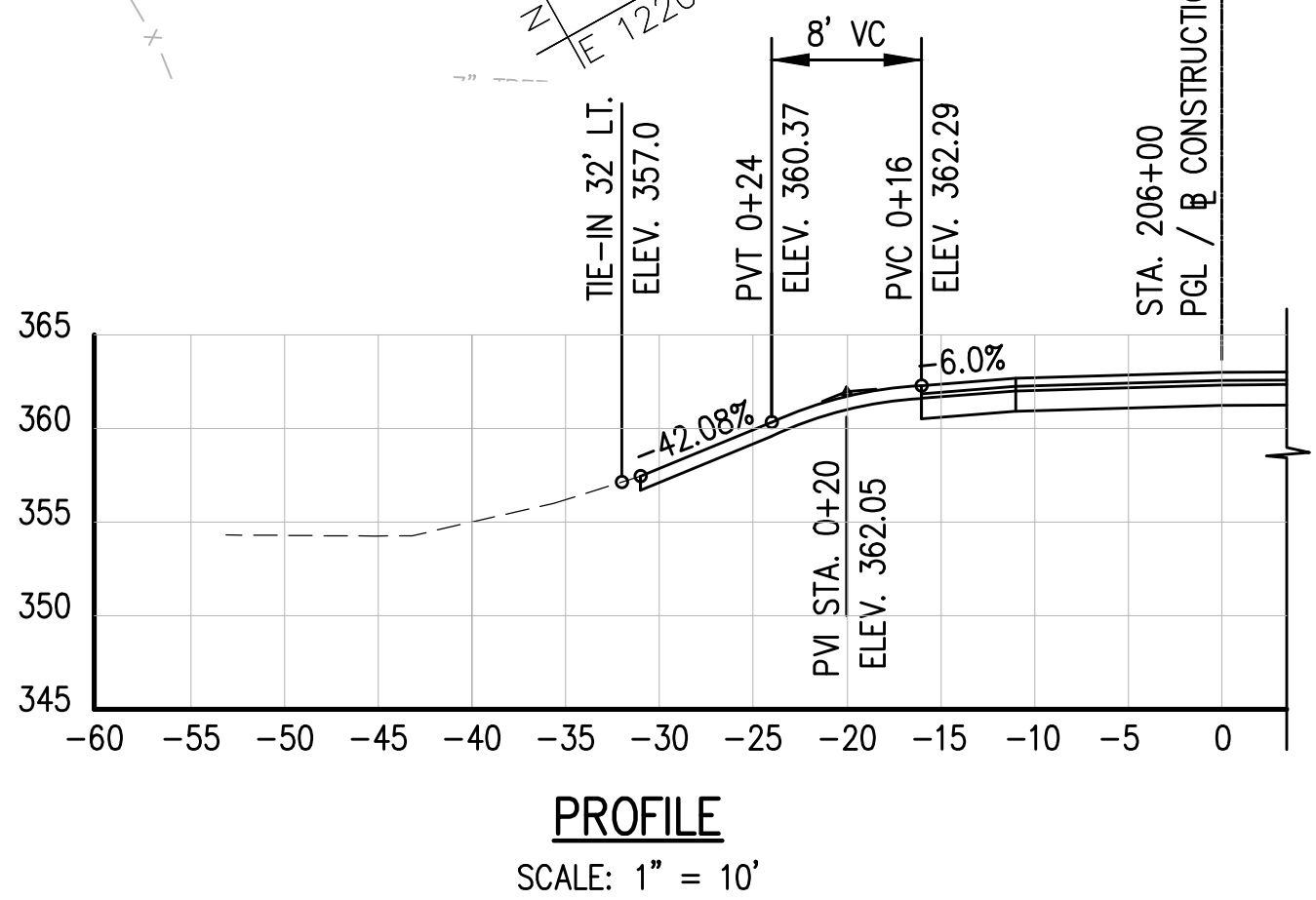
INSTALL WIRE FENCE
STA. 206+29 TO STA. 207+80, RT. - 151 L.F.

LIMITS OF WORK
CONSTRUCTION STA. 211+46.06=
CONSTRUCTION STA. 121+00
CONTRACT NO. 14-9899-C27515



LEGEND

- PROPOSED FULL DEPTH PAVEMENT
- PAVEMENT MILLING/RESURFACING
- PROPOSED RIPRAP
- PAVEMENT REMOVAL
- WETLAND BOUNDARY
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- PROPOSED STORM DRAIN
- DRY SWALE CHECK DAM



FREDERICK COUNTY DIVISION OF PERMITTING AND DEVELOPMENT REVIEW

APPROVED: *David A. Galt* 3/21/11
DEVELOPMENT REVIEW CHIEF DATE

APPROVED: *[Signature]* 3/21/11
STORMWATER MANAGEMENT DATE

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